

# **DEEPCHEK®-HIV ASSAYS & SOFTWARE**

RT/PR - INT - V3 - Whole Genome

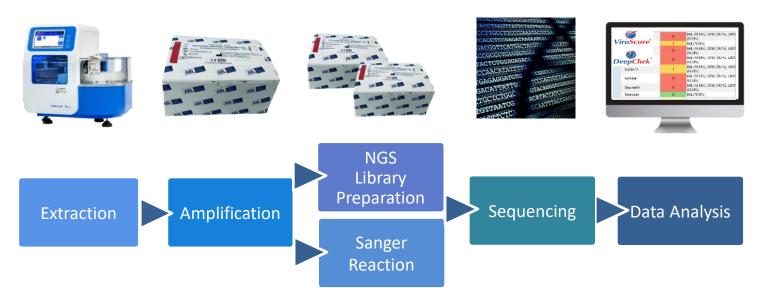
A unique and complete portfolio for HIV genotyping through Sanger & Next Generation (NGS) sequencing

These assays are a unique line of products dedicated to HIV-1 Genotyping and resistance determination through Sanger and NGS sequencing.

- RT / PROT (CE-IVD & RUO)
- INT (CE-IVD & RUO)

- V3 Loop (RUO)
- Whole Genome (CE-IVD & RUO)

# **Workflow overview**





# **HIGHLIGHTS**

### PCR AMPLIFICATION (24 samples/kit)

	SANGER	NGS	
PROT	$\checkmark$	$\checkmark$	CE-IVD & RUO
RT	$\checkmark$	$\checkmark$	CE-IVD & RUO
INT	$\checkmark$	$\checkmark$	CE-IVD & RUO
Whole Genome		$\checkmark$	CE-IVD & RUO
V3 Loop	$\checkmark$	$\checkmark$	RUO





PCR instruments also available through reagent rental

### SEQUENCING

- For Sanger & Next Generation Sequencing (NGS)
- <u>SANGER</u>: DeepChek® SANGER Sequencing Assay
- NGS: DeepChek® Library Preparation assays (incl. 24/48/96/384 indexes)
- Sanger & NGS downstream sequencing instruments also available through reagent rental



#### DATA ANALYSIS

- Downstream sequencing analysis and interpretation with CE-IVD software
- Genotyping, Tropism determination, Drug resistance interpretation
- Complete and comprehensive reporting
- For Sanger (chromatogram editor integrated) & NGS
- Hosting: On premise (local servers) or Cloud (including Health Data Hosting compliance)
- Servers also available through reagent rental



### EXTRACTION (KITS & INSTRUMENTS)

- Manual or automated
- Optimized magnetic beads for fast extraction
- Easy to prepare and very good performance
- Fast Protocol: 96 samples within 24 minutes
- Extraction instrument also available through reagent rental



#### AUTOMATION

- Pipetting robot open system to be used for pre- or post-PCR automation
- IT Services (customization, data import, integration / LIS connectivity ...)
- Pipetting Robot also available through reagent rental





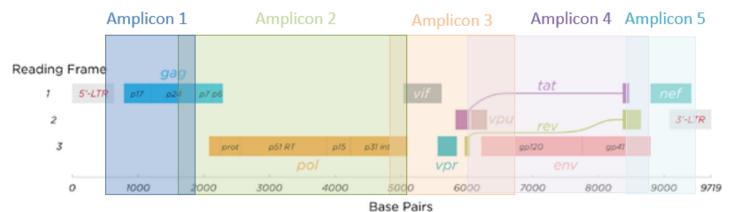
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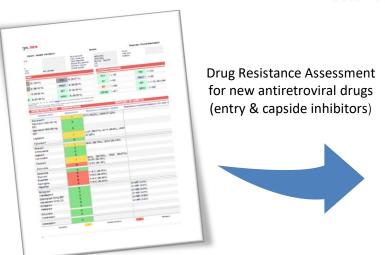


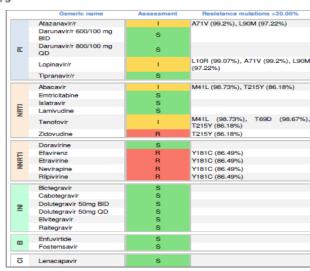
# WHOLE GENOME ANALYSIS

DeepChek® Assay Whole Genome HIV-1 Genotyping (24 tests) (CE IVD - 170A24)

- Robust NGS-based kit with Software
- Drug resistance assessment for all classes including new entry & capside inhibitors
- Coverage: 9719 bp
- Number of amplicons: 5x ~750 to 3500 bp
- Sustainable solution for new mutations / drugs / classes
- Amplicons can be pooled with other DeepChek® applications (Ex. HCV, SARS-CoV-2)
- Can be used for runs of 24 / 48 / 96 / 384 samples
- 3-4 days for full workflow
- Push-button analysis
- Compatible with most NGS platforms









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# HIGHLIGHTS on the DeepChek® technology

ROBUST
CE-IVD and RUO

### **FLEXIBLE**

For low to high throughput (1-384 samples in one run)

### **FAST**

~1-2 days (SANGER) ~2-4 days (NGS)

### **STANDARDIZED**

Kits, Software, Support, Integration with LIMS/HIS, Automation

### **COMPREHENSIVE**

Genotyping, Drug Resistance, Tropism, Reporting, Storage...

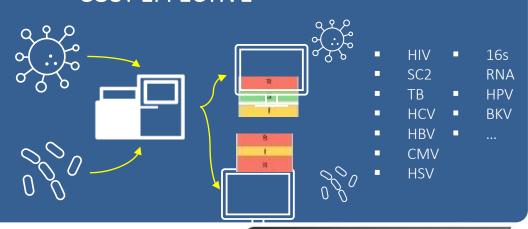
### **SECURED**

Healthcare Cloud Access, Local installation

# POOLING CAPACITY

Pool several
DeepChek®
Libraries (samples)
from different
applications in the
same NGS run

## **COST EFFECTIVE**



## **REPORTING**





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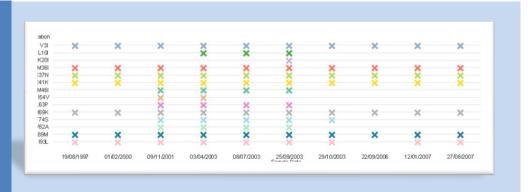
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# **KEY FEATURES**

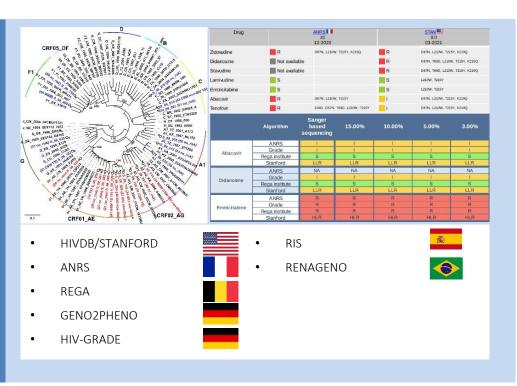
EMBEDDED
CHROMATOGRAM
EDITOR



SINGLE or CUMULATIVE GENOTYPING



SUBTYPING
DRUG RESISTANCE
ASSESSMENT





# **OTHER FEATURES**



#### Technology

- Web-based (browser only)
- Software & database
- Local or Cloud (+HDS) hosting
- Unlimited user accounts
- **Unlimited** analyses



#### Security

- Data access restriction (pools, read-only mode...)
- Logging of user accesses
- Encrypted database
- Reports validation



#### Additional features

- Contamination check
- Quality control
- Batch mode analysis



- Genotyping (per sample & cumulative)

- Reporting & labelling

#### Services

- Constant updates
- Annual upgrades (versions)
- Historical data import
- LIMS integration
- HIS integration
- Support
- **Trainings**

# **Jpdate**

# **REFERENCES & CONTACT**

Product: DeepChek® CE-IVD Assays	Reference:
PR / RT Genotyping and Drug Resistance (CE-IVD)	121A24
INT Genotyping and Drug Resistance (CE-IVD)	122A24
DeepChek® Assay Whole Genome HIV-1 Genotyping (CE-IVD)	170A24
PR / RT Sequencing V1 (CE-IVD) (accessory for 121A24) (Sanger)	125A24
INT Sequencing V1 (CE-IVD) (accessory for 122A24) (Sanger)	126A24
DeepChek® RUO Assays	
PR / RT Genotyping and Drug Resistance (RUO)	101B24
INT Genotyping and Drug Resistance (RUO)	102C24
V3 Loop/Tropism Assay (RUO)	103A24
General Laboratory Products	
DeepChek® SANGER SEQUENCING REACTION V2 (24rx/48rx)	123A24/123A48
DeepChek® NGS LIBRARY PREPARATION V1 (24 indexes)	116B24+124B24
DeepChek® NGS LIBRARY PREPARATION V1 (48 indexes)	116B48+124B48
DeepChek® NGS LIBRARY PREPARATION V1 (96 indexes)	116B96+124B96
DeepChek® NGS LIBRARY PREPARATION V1 (384 indexes)	116B384+124B384
DeepChek® NGS Clean-up beads (60mL)	N411-02
DeepChek® 96x0.2 mL wells plate (25 units)	B70501-01
Software – HIV module	
DeepChek® (CE-IVD)	S-12-023 (HUS)
ViroScore® (CE-IVD)	S-09-014 (VSH)



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